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PTO/SB/21 (09-06)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/594,420
	Filing Date	May 18, 2005
	First Named Inventor	Sun
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	17357.01701US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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<input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks 1. Copies of 61 Cited References	
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Milbank, Tweed, Hadley & McCloy LLP	
Signature		
Printed name	Enrique Longton	
Date	May 17, 2007	Reg. No. 47,304

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Miao-Kun Sun <i>et al.</i>)	Group Art Unit: Not Yet Assigned
)	
US Application Serial No. 10/594,420)	Examiner: Not Yet Assigned
)	
Filed: May 18, 2005)	
)	
For: <i>Treatment of Depressive Disorders</i>)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
 Commissioner of Patents
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 P.O. Box 1450
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Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in C.F.R. § 1.56, applicants are submitting herewith copies of references listed on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application. Applicants have also attached a copy of the International Search Report for PCT/US2005/017158 dated December 14, 2006.

Consideration of the foregoing plus the prompt return of a copy of the enclosed Forms PTO/SB/08A and PTO/SB/08B with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

Applicants' submission of this Information Disclosure Statement (IDS) shall not be construed as an admission that the cited references are prior art to the present invention, or that the cited references qualify as printed publications. The submission of this IDS also shall not be construed as a representation that a prior art search has been performed.


In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted before the mailing of a first Official Action. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary,

the Commissioner is authorized to charge the undersigned's Deposit Account No. 13-3250 under referenced No. 17357.01701US.

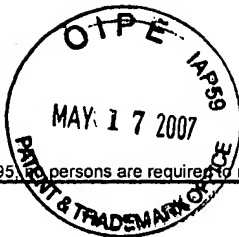
Respectfully submitted,

Date: May 17, 2007

By:


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PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

8

Complete if Known:

Application Number	10/594,420
Filing Date	May 18, 2005
First Named Inventor	SUN
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Examiner Name	Not Yet Assigned
Attorney Docket Number	17357.01701US

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,560,774	12-24-1985	Pettit et al.	
		US- 4,833,257	05-23-1989	Pettit et al.	
		US- 5,072,004	12-10-1991	Pettit	
		US- 5,196,447	03-23-1993	Pettit et al.	
		US- 5,288,514	02-22-1994	Ellman	
		US- 5,359,115	10-25-1994	Campbell et al.	
		US- 5,362,899	11-08-1994	Campbell	
		US- 5,393,897	02-28-1995	Pettit et al.	
		US- 5,625,232	04-29-1997	Numata et al.	
		US- 5,891,870	04-06-1999	Driedger et al.	
		US- 5,891,906	04-06-1999	Driedger et al.	
		US- 5,955,501	09-21-1999	Driedger et al.	
		US- 5,962,498	10-05-1999	Driedger et al.	
		US- 5,962,504	10-05-1999	Kozikowski et al.	
		US- 6,043,270	03-28-2000	Driedger et al.	
		US- 6,080,784	06-27-2000	Driedger et al.	
		US- 6,187,568 B1	02-13-2001	Nishida et al.	
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		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 91/07087	05-30-1991	Affymax Technologies, N.V.		
		WO 92/10092	06-25-1992	Affymax Technologies, N.V.		
		WO 93/20242	10-14-1993	The Scripps Research Inst.		
		WO 93/09668	05-27-1993	Affymax Technologies, N.V.-		
		WO 94/08051	04-14-1994	The Trustees of Columbia Univ.		
		WO 02/097423 A3	11-07-2002	BRNI		

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 03/075930 A1	09-18-2003	BRNI		
		WO 98/32464 A!	07-30-1998	Goldshield Pharmaceuticals Limited		

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Sheet	3	of	8	Attorney Docket Number	17357.01701US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Sun et al., "Carbonic anhydrase gating of attention: memory therapy and enhancement," TRENDS in Pharmacological Sciences, Vol. 23, No. 2, February 2002	
		Sun et al., "Functional switching of GABAergic synapses by ryanodine receptor activation," Proc. Nat'l. Acad. Sci USA, 97: 12300-12305, 2000	
		Battaini, "Protein Kinase C Isoforms as Therapeutic Targets in Nervous System Disease States," Pharmacological Research, Vol. 44, No. 5, 2001	
		Coull et al., "Altered brain protein kinase C in depression: a post-mortem study," European Neuropsychopharmacology 10 (2000) 283-288	
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		Bouron et al., "Acute Application of the Tricyclic Antidepressant Desipramine Presynaptically Stimulates the Exocytosis of Glutamate in the Hippocampus, Neuroscience, Vol. 90, No. 3, pp. 729-736, 1999	
		Budziszewska et al., "Antidepressant drugs inhibit glucocorticoid receptor-mediated gene transcription - a possible mechanism," British Journal of Pharmacology, (2000) 130, 1385-1393	
		Morishita et al., "Effects of tricyclic antidepressants on protein kinase C activity in rabbit and human platelets in vivo," Journal of Affective Disorders 70 (2002) 329-332	
		Casini et al., "Carbonic Anhydrase Activators. The Selective Serotonin Reuptake Inhibitors Fluoxetine, Sertraline and Citalopram Are Strong Activators of Isozymes I and II," Bioorganic & Medicinal Chemistry Letters 13 (2003) 2765-2768	
		Wang et al., "Fluoxetine Depresses Glutamate Exocytosis in the Rat Cerebrocortical Nerve Terminals (Synaptosomes) via Inhibition of P/Q Ca ²⁺ Channels," SYNAPSE 48:170-177 (2003)	

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		Gould et al., "Signaling networks in the pathophysiology and treatment of mood disorders," Journal of Psychosomatic Research 53 (2002) 687-697	
		Abramets et al., "Behavioral Depression-Related Modifications of the Properties of Glutamatergic Synapses in the Basolateral Amygdalar Nucleus in Rats," Neurophysiology, Vol. 34, No. 4, 2002	
		Shelton, "Cellular Mechanisms in the Vulnerability to Depression and Response to Antidepressants," DEPRESSION, Vol. 23, No. 4, December 2000	
		Popoli et al., "Second Messenger-Regulated Protein Kinases in the Brain: Their Functional Role and the Action of Antidepressant Drugs," J. Neurochem., Vol. 74, No. 1, 2000	
		Johnston-Wilson et al., "Disease-specific alterations in frontal cortex brain proteins in schizophrenia, bipolar disorder, and major depressive disorder," Molecular Psychiatry (2000) 5, 142-149	
		Morishita et al., "Different effect of desipramine on protein kinase C in platelets between bipolar and major depressive disorders," Psychiatry and Clinical Neurosciences (1999), 53, 11-15	
		Lieb et al., "Valproic acid inhibits substance P-induced activation of protein kinase C epsilon and expression of the substance P receptor," Journal of Neurochemistry, 2003, 86, 69-76	
		Suzuki et al., "Altered 5-HT-Induced Calcium Response in the Presence of Staurosporine in Blood Platelets from Bipolar Disorder Patients," Neuropsychopharmacology (2003) 28, 1210-1214	
		Hayes, "Acetazolamide in Bipolar Affective Disorders," Annals of Clinical Psychiatry, Vol. 6, No. 2, 1994	
		Lenox et al., "Lithium and the Brain: A Psychopharmacological Strategy to a Molecular Basis for Manic Depressive Illness," Clin. Chem. 40/2, 309-314 (1994)	

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Sheet 5	of 8	Attorney Docket Number	17357.01701US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Wang et al., "Increased membrane-associated protein kinase C activity and translocation in blood platelets from bipolar affective disorder patients," Journal of Psychiatric Research 33 (1999) 171-179	
		Manji et al., "Protein Kinase C Signaling in the Brain: Molecular Transduction of Mood Stabilization in the Treatment of Manic-Depressive Illness," Biol Psychiatry 1999; 46:1328-1351	
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		Yildiz, "Phosphoinositide metabolism, lithium and manic depressive illness," Spectroscopy 16 (2002) 307-316	
		Barbas et al., "Multiple Serotonergic Mechanisms Contributing to Sensitization in Aplysia: Evidence of Diverse Serotonin Receptor Subtypes," Serotonin & Memory, pp. 373-386	
		Pandey et al., "Protein Kinase C in Platelets of Depressed Patients," Biol Psychiatry 1998; 44:909-911	
		Besag, "Behavioral Effects of the New Anticonvulsants," Drug Safety 2001: 24(7) 513-536	
		Hahn et al., "Abnormalities in protein kinase C signaling and the pathophysiology of bipolar disorder," Bipolar Disorders 1999; 2: 81-86	
		International Search Report for PCT/US2005/017158 dated December 14, 2006	
		Mannisto, P.T. et al., "Beneficial effects of co-administration of catechol-O-methyltransferase inhibitors and L-dihydroxyphenylalanine in rat models of depression", European Journal of Pharmacology 274 (1995) 229-233	

Examiner Signature	Date Considered
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NON PATENT LITERATURE DOCUMENTS			
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		Kravitz, H.M. et al., "Dietary supplements of phenylalanine and other amino acid precursors of brain neuroamines in the treatment of depressive disorders", Journal of the American Osteopathic Associate 1984 United states, Vol. 84, No. 1 Suppl., 1984, pp. 119-123, XP008067181	
		Chetkovich, D.M., et al., "N-Methyl-D-aspartate receptor activation increases cAMP levels and voltage-gated Ca ²⁺ channel activity in area CA1 of hippocampus", Proc. Natl. Acad. Sci. USA Vol. 88, pp. 6467-6471, August 1991	
		C-T Hu, Mickey, et al., "Human fibroblast growth factor-18 stimulates fibroblast cell proliferation and is mapped to chromosome 14p11", Oncogene (1999) 18, 2635-2642	
		C-T Hu, Mickey, et al., FGF-18, a Novel Member of the Fibroblast Growth Factor Family, Stimulates Hepatic and Intestinal Proliferation", Molecular and Cellular Biology, Oct. 1998, p. 6063-6074	
		Mody, Monica, et al., "Genome-wide gene expression profiles of the developing mouse hippocampus", PNAS, July 27, 2001, Vol. 98, No. 14, p. 8862-8867	
		Cavallaro, Sebastiano, et al., "Late memory-related genes in the hippocampus revealed by RNA fingerprinting", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 9669-9673, September 1997	
		Tsien, Joe Z., et al., "The Essential Role of Hippocampal CA1 NMDA Receptor-Dependent Synaptic Plasticity in Spatial Memory", Cell, Vol. 87, 1327-1338, December 27, 1996	
		Ohbayashi, Norihiko, et al., "Structure and Expression of the mRNA Encoding a Novel Fibroblast Growth Factor, FGF-18", The Journal of Biological Chemistry, Vol. 273, No. 29, Issue of July 17 pp. 18161-18164, 1998	
		Calo, Girolamo, et al., "Pharmacology of nociceptin and its receptor: a novel therapeutic target", British Journal of Pharmacology (2000) 129, 1261-1283	
		Gomez, Marie, et al., "Ca ²⁺ Signaling via the Neuronal Calcium Sensor-1 Regulates Associative Learning and Memory in C. elegans", Neuron, Vol. 30, 241-248, April 2001	

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		Masson, J., et al., "Neurotransmitter Transporters in the Central Nervous System", Pharmacological Reviews, Vol. 51, No. 3	
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		Application Number	10/594,420
		Filing Date	May 18, 2005
		First Named Inventor	SUN
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 8	of 8	Attorney Docket Number	17357.01701US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Woolf, Nancy J., et al., "Hippocampal microtubule-associated protein-2 alterations with contextual memroy", Brain Research, March 6, 1999, 821(1):241-249	
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		Tischmeyer, W., et al., "Activation of immediate early genes and memory formation", CMLS, Cell. Mol. Life Sci. 55 (1999) 564-574	

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